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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Mitchell A. Benjamin et al.

Group Art Unit: Unknown

Application No.: 09/981,660

Filed: October 17, 2001

For: MULTI-SENSOR FUSION

Examiner: Unknown

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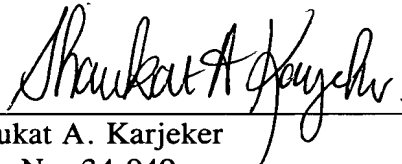
INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

1. Pursuant to their duty of disclosure, applicants present for the Examiner's consideration the document(s) listed on the accompanying Form PTO-1449.
  - ☒ [ X ] Copies of the document(s) (are) (is) enclosed, except those disclosed in a prior application from which priority is claimed.
  - ☒ [ X ] Copies of document(s) AA-AF and AR-AS cited on the attached copy of a previously filed PTO 1449 are not enclosed because (1) they are already of record in U.S. Pat. Application No. 09/837,563, filed April 17, 2001, on which this application relies for an earlier filing date under 35 U.S.C. § 120, and (2) any information disclosure statement filed in the prosecution of U.S. Pat. Application No. 09/837,563, complies with 37 C.F.R. §§ 1.98(a) and (c). (37 C.F.R. § 1.98(d).)
2. ☒ [ X ] Applicant(s) draw(s) the Examiner's attention to the file of copending U.S. Pat. Application No. 09/837,563, filed April 17, 2001, which is cited in this application, and 60/198,068 filed April 17, 2000.
3. This information disclosure statement is being submitted:
  - a. ☒ [ X ] Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.)
  - b. ☐ [ ] After the period set forth in paragraph 1a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)
    - i. ☐ [ ] A \$180.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed.

- ii. ☐ A statement specified by 37 CFR 1.97(e) is set forth below.
- c. ☐ After the mailing date of a final action or notice of allowance and on or before payment of an issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. Enclosed is a \$180.00 information disclosure statement processing fee set forth in 37 CFR 1.17(p).
4. ☐ The attorney or agent signing below hereby states that:
- ☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
- ☐ no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.
5. ☐ Applicants set forth below concise explanations of the relevance of each document not in the English language and/or selected documents in the English language.

Respectfully submitted,



Shaukat A. Karjeker  
Reg. No. 34,049

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Attorney Docket No. 44375/16:1

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
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44375/16:1APPLICATION NO.  
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## INFORMATION DISCLOSURE CITATION

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## APPLICANTS

Mitchell A. Benjamin et al.

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE
AA						

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AB					

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AC	Jones, Willie D., Assistant Editor, "Keeping Cars Safe From Crashing," <i>IEEE Spectrum</i> , September 2001, pp.40-45.
AD	"Technical Backgrounder: Cadillac's Night Vision System," August 31, 1998, < <a href="http://www.autoweb.com.au/start_180/showall_id_HOL/doc_gmh9808312/article.html">http://www.autoweb.com.au/start_180/showall_id_HOL/doc_gmh9808312/article.html</a> > (9 pages)
AE	"Technical Innovations: Night Vision," printed September 2001, < <a href="http://www.cadillac.com/tech/night_r.htm">http://www.cadillac.com/tech/night_r.htm</a> > (4 pages)
AF	"Technical Innovations: Ultrasonic Rear Parking Assist," printed September 2001, < <a href="http://www.cadillac.com/tech/ultrasonic_r.htm">http://www.cadillac.com/tech/ultrasonic_r.htm</a> > (1 page)
AG	"Night Vision," printed July 2001, <a href="http://autoscribes.org/nightvision.htm">http://autoscribes.org/nightvision.htm</a> (15 pages)
AH	"Cadillac's Imaj of the future," Global Viewpoints (May 2000), printed September 2001, < <a href="http://www.sae.org/automag/globalview05-00/03.htm">http://www.sae.org/automag/globalview05-00/03.htm</a> > (4 pages)
AI	"The 'Mechatronic' Car," printed July 2001, < <a href="http://bmwworld.com/models/concepts/z22.htm">http://bmwworld.com/models/concepts/z22.htm</a> > (2 pages)
AJ	"SmartCar 2001: Project Description," printed July 2001, < <a href="http://www.cc.gatech.edu/classes/cs6751_98_fall/projects/smartcar/part2_v2/project-description.html">http://www.cc.gatech.edu/classes/cs6751_98_fall/projects/smartcar/part2_v2/project-description.html</a> > (3 pages)
AK	"Microvision and Ford to Collaborate on Novel 'Heads-Up' Display For Automobiles," Source: <i>Microvision Inc.</i> , May 24, 2001, < <a href="http://biz.yahoo.com/prnews/010524/sfth001.html">http://biz.yahoo.com/prnews/010524/sfth001.html</a> > (2 pages)
AL	"Sensors," Source: <i>Automotive Engineering International Online</i> , printed July 2001, < <a href="http://www.sae.org/automag/sensors/index.htm">http://www.sae.org/automag/sensors/index.htm</a> > (17 pages)
AM	"Some Head-Up Display References to Consider", printed July 2001, < <a href="http://www.uiowa.edu/~ppc/hudrefs.html">http://www.uiowa.edu/~ppc/hudrefs.html</a> > (3 pages)
AN	"Search Results", Source: <i>IBM.com searching for 'automobile display'</i> , printed July 2001, < <a href="http://www.ibm.com/search?v=11&amp;lang=en&amp;cc=us&amp;q=automobile+display">http://www.ibm.com/search?v=11&amp;lang=en&amp;cc=us&amp;q=automobile+display</a> > (1 page)
AO	"Reconfigurable Head-Up Display", Source: <i>Delphi Automotive Systems</i> , (2 pages)

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6 2 0 2 1 5 9	3/13/01	Ghafir, <i>et al.</i>	713	201	
	AB	6 1 8 9 0 3 2	2/13/01	Susaki, <i>et al.</i>	709	225	
	AC	6 1 2 2 5 1 4	9/19/00	Spaur, <i>et al.</i>	455	448	
	AD	6 1 0 5 1 3 1	8/15/00	Carroll	713	155	
	AE	5 7 3 2 0 7 4	3/24/98	Spaur, <i>et al.</i>	370	313	
	AF	5 5 3 0 7 5 8	6/25/96	Marino, Jr., <i>et al.</i>	380	49	
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	AH						
	AI						
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	AM							
	AN							
	AO							

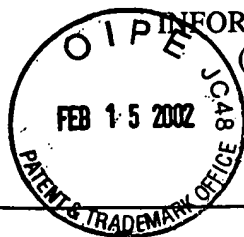
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	"Internet Protocol: Connectionless Datagram Delivery," Chapter 7 in Book entitled <i>Internetworking with TCP/IP</i> , by Douglas E. Comer, published by Prentice-Hall, Inc. in 1995.					
	AS	"Technical Trend of Multimedia Mobile and Broadband Wireless Access Systems," published in <i>IEICE Trans. Communication</i> , Vol. E82-B, No. 12, December 1999.					
	AT						

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Thomas Shigeno and David N. OlmsteadFILING DATE  
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							YES	NO
	AF							
	AG							
	AH							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AI	"Dicaf: A Distributed Architecture for Intelligent Transportation," by Noppanunt Utamaphethai, <i>et al.</i> , <i>IEEE</i> , March 1998, pp. 78-84, Internet site: <a href="http://www.ece.cmu.edu/~nau/docs/dicaf.pdf">http://www.ece.cmu.edu/~nau/docs/dicaf.pdf</a> .
	AJ	"Fault Diagnosis for Platooning Vehicles," printed form of PowerPoint slide show by Tunc Simsek, <i>et al.</i> , Internet site: <a href="http://www.path.berkeley.edu/PATH/Research/presentations/tunc.pdf">http://www.path.berkeley.edu/PATH/Research/presentations/tunc.pdf</a> .
	AK	"National AHS Consortium Information Briefing for Lucent Technologies," printed form of PowerPoint slide show by Patrick Langley, February 21, 1997, Internet site: <a href="http://www.monolith-mis.com/ahs/Scenarios/01/sld004.htm">http://www.monolith-mis.com/ahs/Scenarios/01/sld004.htm</a> .
	AL	"Operation, Control, Hardware and Network Issues," published on the Internet by Kim Goltermann, July 30, 2001.
	AM	"An Overview of Emerging Results in Networked Multi-Vehicle Systems," by Anouck Renée Girard, <i>et al.</i> , Internet site: <a href="http://www.path.berkeley.edu/~anouck/papers/cdc3101.pdf">http://www.path.berkeley.edu/~anouck/papers/cdc3101.pdf</a> .

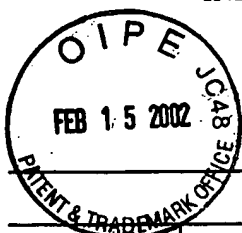
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	AQ						
	AR						

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							YES	NO
	AS							
	AT							
	AU							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AV	"Platooning in FlyWay," published on the Internet by SwedeTrack System (Copyright 1997); printed from Internet site updated on August 28, 2001.	
AW	"Radar Systems and Components for Intelligent Vehicles," by Dr. William Fleming, published on the Internet.	
AX	Raytheon Company Internet home page and datasheet entitled "RT Secure: Embedded Hard Real-Time Secure Operating System," Internet site: www.raytheon.com (Copyright 2000).	
AY	"Vehicle Platooning and Automated Highways," published by California PATH.	
AZ		

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